AIPG Ohio Section 2018 Fall Meeting

The State of the Oil and Gas Industry in Ohio and the Appalachian Basin

**Presenter:** Jeffrey C. Dick, PhD, Chairman, Department of Geological and Environmental Sciences, Youngstown State University

**Date:** Thursday, September 27, 2018

**Location:** The Boulder Creek Golf Club & Event Center
9700 Page Road, Streetsboro, Ohio 44241

**Schedule:** Social hour begins at 5:00 pm followed by Dinner at 6:00 and Presentation at 7:00

**Event Registration and Payment:** [https://www.aipg-ohio.org/payment.php](https://www.aipg-ohio.org/payment.php)

See Page 13 for event details

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Message from the President

Colin Flaherty, CPG-11465

Fellow AIPG Members,

I am completing this message as I am in the air on my way to Colorado Springs for the AIPG National Conference that kicks off tomorrow. I was privileged enough to attend the 2017 conference and, with that experience, I am looking forward to another great time over the next few days with colleagues and friends that share the love of the geosciences.

Looking back on the past few months, the Executive Committee has been quite busy:

- The field trip to Serpent Mound back in June turned out great and was very well received by the attendees (although, it was quite hot!). I want to extend a big “thank you” to Mark Baranoski and Curtis Coe for their efforts in preparing and leading the field trip. Also, “thank you” to Robert Andrews for helping with the food preparation and other logistical items. Please be sure to see the article in this newsletter about the field trip including some great photos.

- Much planning and effort has gone into the September meeting and dinner presentation. We are thrilled to hold the event in northeast Ohio at Boulder Creek Golf Club & Event Center in Streetsboro on September 27. Dr. Jeffrey Dick of Youngstown State University will be speaking about the state of oil and gas in our region. Special thanks to Tom Jenkins, Mark Deering, and Pat Nortz for their efforts in arranging this event.

- We are thrilled to host the second Vapor Intrusion Short Course on October 10-11. The course could not happen without the efforts of our friends at Cox-Colvin Associates, Inc. Many thanks to Mort Schmidt, Laurie Chilcote, Craig Cox, and others for your help and partnership! Please see the information in the newsletter and register to attend…I already have! (Please note, the course has been approved CEUs and VAP PDHUs.)

- Lastly, our annual meeting and dinner presentation is scheduled for November 15 and will be held at La Scala in Dublin (Columbus).

I know I thanked a lot of people above for their efforts on individual events, but the Ohio Section Executive Committee is a great, hard working group. Admittedly, I was anxious coming into this year as President, specifically making sure we have enough activities/speakers to stimulate membership. With great ideas and collaborative efforts, this year’s activities have shaped up (in my opinion) quite nicely. The Executive Committee members give up their personal time and devote it to the advancement of the profession of geology…so, to all of you: “Thank you!!”
HELP WANTED

The Executive Committee will likely have vacancies in 2019. If you are interested in joining the Executive Committee as a Member-At-Large, please reach out to me!

As always, if you have any questions or if you would like any additional information about AIPG or the Ohio Section, please do not hesitate to reach out to me or one of the Executive Committee members.

Thank you,

Colin O. Flaherty, CPG-11465
2018 AIPG Ohio Section President

Calendar of Upcoming Events

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<td>SEPTEMBER 27</td>
<td>AIPG Ohio Section Fall 2018 Meeting and Dinner Presentation – Northeast Ohio.</td>
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<td><a href="http://www.aipg-ohio.org">www.aipg-ohio.org</a></td>
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<tr>
<td>OCTOBER 10-11</td>
<td>Vapor Intrusion Short Course - provided by AIPG Ohio Section in conjunction with Cox-Colvin and Associates. <a href="http://www.aipg-ohio.org">www.aipg-ohio.org</a></td>
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<tr>
<td>NOVEMBER 15</td>
<td>AIPG Ohio Section AIPG Annual Meeting and Dinner Presentation - location and details to be announced. <a href="http://www.aipg-ohio.org">www.aipg-ohio.org</a></td>
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Ohio Section 2018 Summer Field Events
Serpent Mound Impact Structure
Field Trip Recap

Contributing author Curtis Coe, CPG-06240

On June 16, 2018, the Ohio Section of AIPG hosted a field trip to Southeast Ohio, to study the geology of the Serpent Mound meteorite impact structure. The field trip was lead by Mark Baranoski and Curtis Coe. Fifteen geologists from around Ohio and Michigan attended the field trip. The field trip was designed to showcase the geology of the impact crater from the flat lying rocks outside the crater to the spectacular geology and structure inside the crater. Everyone that attended received 7 hours of continuing education credit. (The Ohio Section would like to thank Brent Huntsman, Matt Justice, and Ranky Mikle for taking photographs of the field trip.)

This figure shows the Approximate Crater boundary along with locations of the field trip stops.
Stop 1 **Outside the Crater**: Outcrop of the flat-lying Ordovician Drakes Shale Formation overlain by the Silurian Brassfield Limestone located outside of the crater boundary on State Route 73.
Stop 2 Scenic Overlook Outside the Crater: Group photograph of field trip attendees
Back Row: Frank Majchszak, Robin Roth, Brent Huntsman, Paul Painter, Curtis Chapman, Mark Baranoski, Mark Jones. Middle Row: Curtis Coe, Mary Staza, Mary Saup, Casey Saup, Paul Downing. Front Row: Shannon Hunter, Linda Aller, Matt Justice

Stop 3 Outer Ring Graben South of the Crater: Mark Baranoski discusses the geology of the steeply dipping Silurian Brassfield and Devonian Ohio Shale exposed in the stream bed along Wallace Road. This stop is in the outer ring graben of the Serpent Mound Crater.

Stop 4 Transition Zone: Shows the carbonate breccia located along Horner Chapple Road.
Stop 5 **Transitions Zone:** View of Serpent Mound Effigy from the tower showing the serpent as well as the field trip attendees.

Stop 5 **Transition Zone:** View of field trip attendees walking the limestone bluffs under the Serpent Mound effigy. This area is within the southeastern transition zone between the outer ring graben and the central uplift.

Stop 5 **Transition Zone:** View of the brecciated carbonate below the Serpent Mound bluff. This photograph shows vertical fracture as well as sink hole development in the carbonate breccia.
Stop 6 **Transition Zone**: At this stop, the field trip attendees were able to observe the moderately dipping Silurian limestones, the brecciated rocks, as well as the moderately dipping brecciated Ohio Shale.

Stop 6 **Transition Zone**: Breccia found along the stream bed. Note the rock clasts mixed with the shale.

Stop 7 **Central Uplift**: The long climb to the top of the Central Uplift. It was hot and humid, but we all got to the top. The climb was well worth the effort.
Stop 7 **Central Uplift:** Mark Baranoski standing next to vertical beds of undivided Ordovician age limestones and shales associated with the central uplift of the meteorite crater.
As you can imagine there is a lot more to see in this area if you know where to look. All that attended would like to thank the Ohio Section for organizing this field trip. Colin Flaherty and Robert Andrews provided a great lunch with plenty to drink and eat. At the end of the field trip all were treated to a visit to the House of Phacops to see the trilobite fossils and mineral collection on display for the public.

Stop 7 **Central Uplift**: Vertical beds of undivided Ordovician age limestones and shale in river bed along the central uplift of the meteorite crater.

Stop 7 **Central Uplift**: This figure shows the convoluted and folded nature of the limestones in the stream bed along the Central Uplift.
Stop 8 **Outer Ring Graben North of Crater**: At this stop field trip attendees were able to observe moderately dipping Ohio Shale overlain by the Berea Sandstone. Shatter cones could be observed in a Berea Sandstone float block along the side of the road.
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Ohio Section 2018 Fall Meeting and Dinner Presentation

**Feature Presentation:** The State of the Oil and Gas Industry in Ohio and the Appalachian Basin

**Presented By:** Jeffrey C. Dick, PhD, Chairman, Department of Geological and Environmental Sciences, Youngstown State University

The Ohio Section of AIPG is pleased to host Jeffrey Dick, PhD, from Youngstown State University, at the Section’s Fall Meeting and Dinner presentation, which will take place on Thursday, September 27, 2018 at The Boulder Creek Golf Club & Event Center, 9700 Page Road, Streetsboro, Ohio 44241. Dr. Jeffrey Dick will be presenting: *The State of the Oil and Gas Industry in Ohio and The Appalachian Basin*. The Fall Meeting and Dinner presentation is sponsored by **EA Group, ALS Global, and Buckeye Elm Contracting**.

The event begins at 5:00 pm with social hour, followed by dinner at 6:00, and the feature presentation at 7:00. Dinner will be buffet-style with a cash bar. The cost will be $35 for AIPG members or guests and $20 for AIPG Student Associates and other students. Please preregister and submit payment for the event via PayPal through the AIPG Ohio Section website [https://www.aipg-ohio.org/payment.php](https://www.aipg-ohio.org/payment.php). Please RSVP as soon as possible, but no later than Thursday, September 20 by registering and paying for the event.
The State of the Oil and Gas Industry in Ohio and the Appalachian Basin

by Jeffrey C. Dick, PhD

ABSTRACT

The Marcellus and Point Pleasant (a.k.a. Utica) Shales of Ohio, Pennsylvania and West Virginia have placed the Appalachian Basin as the largest producer of domestic natural gas and the United States as the world's leading natural gas producer. Beginning with 2008, natural gas production has steadily increased from 1.4 bcf/day to the current level of 24 bcf/day. The combined total number of Marcellus and Point Pleasant wells now stands at nearly 17,000. The combined technically recoverable natural gas reserves of the Marcellus and Point Pleasant is estimated to be between 122 and 500 trillion cubic feet. Although these two shale plays are dominated by dry methane gas, the Marcellus of southwestern Pennsylvania and northern West Virginia and the Point Pleasant of Ohio contain vast reserves of ethane-rich natural gas liquids (NGLs).

The methane and ethane production and proven reserves have stimulated tremendous infrastructure construction in the form of transmission pipelines, natural gas power plants, liquefied natural gas (LNG) export facilities and most recently, ethane crackers. Currently there is more than $23 billion in planned investment for more than 3,200 miles of pipelines in the tri-state area that will move more than 17 bcf and 345,000 barrels of natural gas and NGLs per day, respectively. Fifty-eight new natural gas driven power plants are currently in various stages of planning and construction in Pennsylvania and Ohio alone. The United States is gearing up to be a major exporter on natural gas with a total of sixty-eight proposed liquefied natural gas (LNG) export facilities in various stages of planning.
export terminals. Finally, the petrochemical aspect of Appalachian Basin shale production cannot be overlooked with the construction of the Royal Dutch Shell ethane cracker facility near Monaca, PA and the planned PPT Global ethane cracker down river from Monaca in Belmont County, Ohio. These two projects along with the proposed ethane storage hub in West Virginia portend an Ohio River petrochemical corridor. The combined effect of production and infrastructure build out is driving tremendous economic development and skilled labor job creation.

The story doesn’t end with the Marcellus and Point Pleasant Shales as the unconventional drilling and production methods that unlocked the long-known potential for shale production is actively extending to conventional oil and gas plays. Over the past few years several unconventional wells have been drilled and completed in the Clinton Formation of Ohio. Most recently, Cabot Oil and Gas is moving forward with the drilling of three unconventional exploratory wells in the Cambrian-age Knox Group dolomite and sandstones in Ashland County, Ohio. Although Cabot remains tight-lipped about their exploratory program, the potential of the Knox Group is well known from the Morrow County oil boom of the 1960’s and production of the Rose Run Sandstone and Beekmantown Dolomite in the 1980s and 1990s. Current unconventional production of the Appalachian basin may only be the tip of the iceberg as these drilling and production methods extend to new and future plays.

**PRESENTER**

Jeffrey Dick is a Professor of Geology and Chair of the Department of Geological and Environmental Sciences at Youngstown State University. He also directs the YSU Natural Gas and Water Resources Institute. He received his Ph.D. degree in Applied Geology from Kent State University in 1992.

Dr. Dick is an expert on northeastern Ohio hydrogeology and Appalachian Basin oil and gas exploration and production. Dr. Dick’s oil and gas industry experience includes four years as a Gulf of Mexico petroleum geologist with Chevron USA, ten years as Director of Locust Energy Inc. and eight years as owner of J.D. Geological and Environmental Services, LLC. His recent work includes co-PI on Schlumberger Techlog software grant, oil and gas legal expert testimony, determinations of ultimate recovery of Point Pleasant units, prediction of Point Pleasant produced water and co-authorship of JobsOhio Shale Investment Dashboard reports.
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AIPG Ohio Section and Cox-Colvin Announce
Fall 2018 Vapor Intrusion Short Course
in Central Ohio

Due to the great feedback from the 2017 Vapor Intrusion Short Course, the AIPG Ohio Section is offering it again in October 2018. Vapor intrusion (VI) is the migration of undesirable chemical components into indoor airspace. Vapor intrusion into buildings is one of the primary routes of human exposure to volatile organic compounds released to the subsurface. This short course will cover VI aspects including the physical processes governing subsurface vapor transport and entry into buildings, VI assessment, monitoring and mitigation strategies, VI risk analysis, legal aspects, case studies and field demonstrations. Attendees at this course can receive 1.35 CEUs (13.5 Professional Hours from AIPG) and 13.0 VAP PDHUs from Ohio EPA for Certified Professionals. Please view the full course information here: AIPG Ohio Section 2018 VI Course Flyer

**REGISTER NOW!**

**October 10 and 11, 2018**

ODNR H.R. Collins Core Laboratory Conference Room
Delaware, Ohio

To register and pay, go to [https://www.aipg-ohio.org/payment.php](https://www.aipg-ohio.org/payment.php)

**Course Topics**

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**REVIEWS OF LAST YEARS COURSE**

Everyone was knowledgeable and the presentations were well organized. I feel much more comfortable with VI - thanks!

I think it was a great training session and well worth the investment of time and money!
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Public Outreach Opportunity

Contributing author Tom Jenkins, CPG-07892

The Cleveland Geological Society is looking for informal speakers to attend their regular meetings and speak on topics of geologic interest. Meetings are held on the third Wednesday of the month from September through May (except October) at 7:30 pm in Classroom A on the Cleveland Museum of Natural History’s lower level (unless otherwise noted on the website).

The Cleveland Geologic Society was founded in 1957. Membership is open to people interested in all aspects of geology. Monthly meetings feature talks on diverse topics, such as the geology of far-flung places, explanations of local points of interest, and paleontology. Members and visiting geologists are invited to speak. The society also holds field trips to local sites and occasionally more distant locales.

The Cleveland Geologic Society helps support a number of museum programs. Among these are the summer Kirtlandia Research Internship Program and Archaeology & Earth Science Day in October.

For additional information, check out the website at https://www.cmnh.org/join-support/clubs-societies/Cleveland-Geological-Society. To present a topic as a speaker please contact Doug Dunn (DDunn@cmnh.org) at the Cleveland Museum of Natural History.
The Ohio Section of AIPG would like to welcome the new members listed below that have joined in 2018. If you know any of these individuals, please reach out with a note of congratulations!

**Student Associate Members**

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<td>SA-9483</td>
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<tr>
<td>Miss. Legacy Barger</td>
<td>SA-9049</td>
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<td>Ms. Rebecca Boyd</td>
<td>SA-9178</td>
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<td>Ms. Rebeccah DiPuccio</td>
<td>SA-9350</td>
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<td>Mr. Duncan Freeland</td>
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<td>Ms. Kira Harris</td>
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<td>Mr. Nicholas Reineck</td>
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<td>Ms. Nurnadira Sazali</td>
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<td>Mr. Colby Schwaderer</td>
<td>SA-9355</td>
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<td>Ms. Emily Simpson</td>
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<td>Ms. Allison Wilson</td>
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<td>Ms. Danielle Anderson</td>
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<td>Mr. Alexander Brown</td>
<td>SA-9401</td>
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<td>Mr. David Cooper</td>
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<td>Ms. Kira Eaton</td>
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<tr>
<td>Ms. Riley Garner</td>
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<td>Mr. Michael McKean</td>
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<td>Mr. Ljubomir Risteski</td>
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<td>Ms. Eva Schunn</td>
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<td>Ms. Jenna Shinsky</td>
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<td>Ms. Hayley Spalla</td>
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**Young Professional Members**

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<td>Ms. Alix Flint - Hopewell, OH</td>
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<td>Mr. Donald Eddy – Mentor, OH</td>
<td>YP-0317</td>
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<td>Mr. William Vennemeyer – Columbus, OH</td>
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**Professional Members**

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<td>Mr. Nate Fela – Uniontown, OH</td>
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Letters to the Editor and Editorial Submittal Guidelines

The Ohio Section welcomes and encourages membership discourse via the Section newsletter on relevant geopolitical and geological topics, in accordance with our chartered purpose. Contributing authors are requested to abide by the following guidelines to ensure civility and professionalism.

1. Scientific interpretations should include accurate and effective references.

2. Opinion pieces should be presented with reasoning. Fellow members may choose to comment or challenge a submittal with their own contribution.

3. Authors must abide by the AIPG Code of Ethics. Any author who violates this code will not be published. Authors must be respectful to fellow members, all political parties, officials and candidates.

4. Letters to the Editor should be under one page in 12 pt. Arial font.

5. Member authors should provide their name and certification number.

6. The Ohio Section also welcomes and will consider relevant articles from non-members, provided contributions abide by the above stated guidelines.

Contributions to the Ohio Section newsletter do not necessarily reflect the opinion of the Ohio Section or the editor. We reserve the right to edit for clarity and space considerations. Please send submittals to the editor at sbeanland@eagoninc.com.